

Los Angeles County Integrated Solid Waste Task Force Facility and Plan Review Subcommittee

August 15, 2013





Sunshine Canyon Landfill – North View





Sunshine Canyon Landfill – South View







SITE DEVELOPMENT



- Offsite Sewer
 - ✓ Onsite lift station and 2,100 LF force main in San Fernando Road
 - ✓ Designed for 282,000 GPD
 - **✓ Permit in September 2013**
 - ✓ Operational in November 2013



- Cell Development
 - ✓ Cell CC-3A, Part 2
 - Construction activities started mid-April
 - 11-acre cell with estimated 2 ½ year capacity
 - Planned to be completed in two phases:
 - Phase 1 completion by end of September
 - Phase 2 completion by mid- November

Cell CC-3A, Part 2 Buttress







- Cell Development
 - ✓ Cell CC-3B Draft Approval of Design Report
 - Received July 22, 2013 currently in 30-day public comment period (closes August 19th)
 - Approximately 20-acre cell
 - Planned for construction in 2015
 - Requires approval of Design Report for West Drainage Channel before liner system is installed
- > Front Entrance scheduled to start in 2014

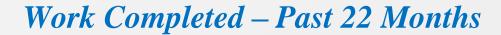


LANDFILL GAS AND ODOR MANAGEMENT





- Improve LFG collection system efficiency
 - ✓ Improvements focused on
 - Additional vertical wells improve density
 - Upgrade "capillaries" (internal pipes) sizes
 - Upgrade perimeter header system
 - Additional flare capacity to burn collected LFG
- Started implementation in August 2011





Well Field

√ 329 Vertical Extraction Wells - 221 County (67%) / 108 City (37%)

Piping

- ✓ 18,500 LF of 36"/24" Perimeter Header
- ✓ 29,400 LF of Horizontal Collectors in waste
- √ 3,000 LF of Perimeter Liner Collector
- √ 16,500 LF of Lateral Pipes/Slope Collectors to Header
- ✓ Total of 67,400 LF or over 12 miles

Work Completed – Past 22 Months

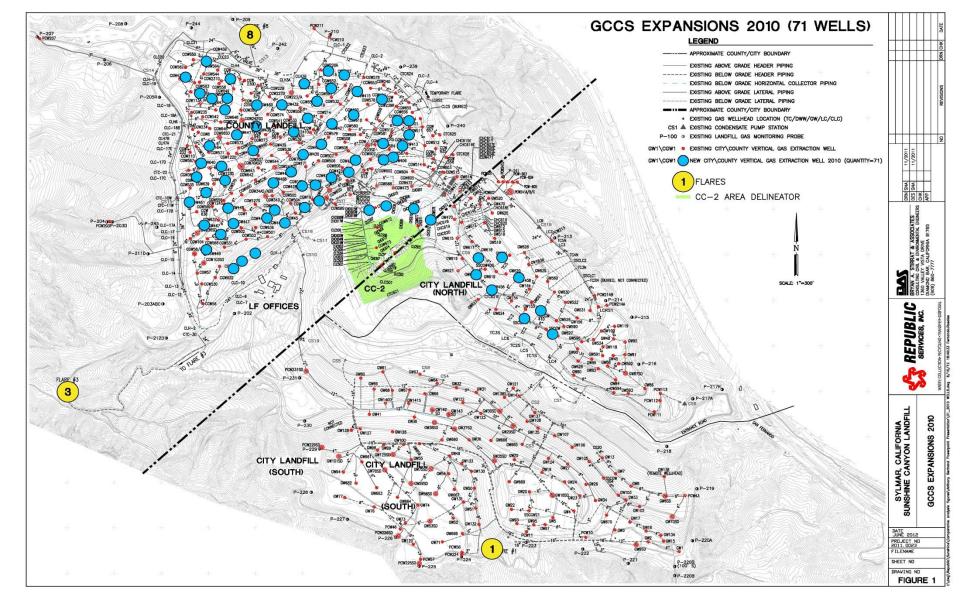


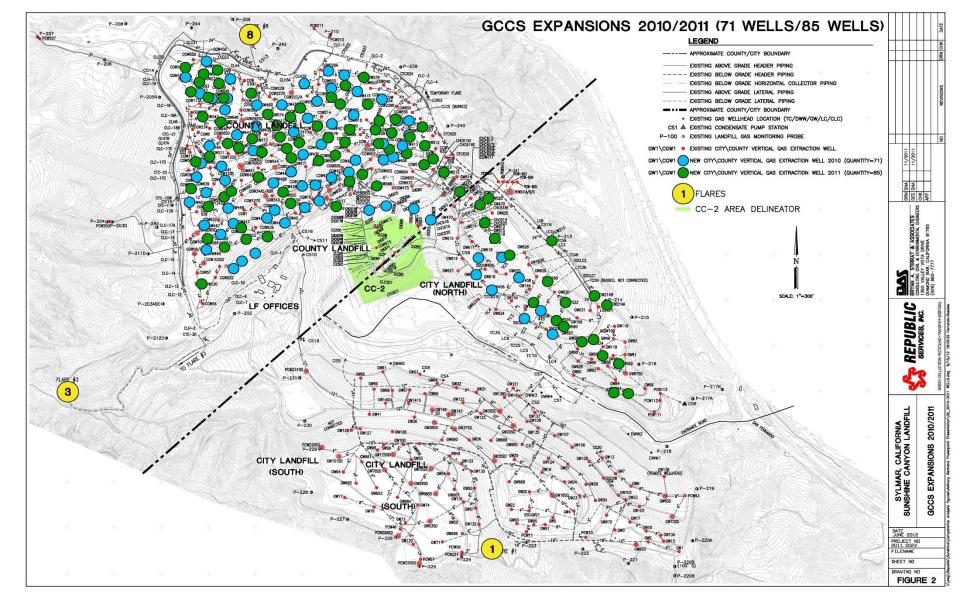
> Flares

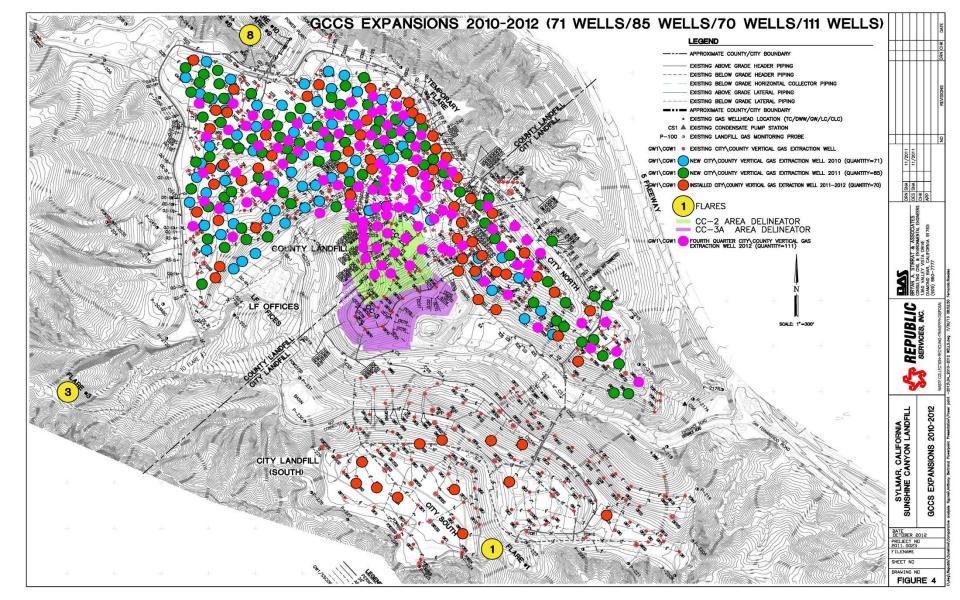
- ✓ Installed Temporary Flare 3,000 SCFM
- ✓ Installed Flare 9 5,000 SCFM
- ✓ Installed new 200 HP blowers in Flares 1, 3 and 8
- ✓ Installed new Flare 10 5,000 SCFM

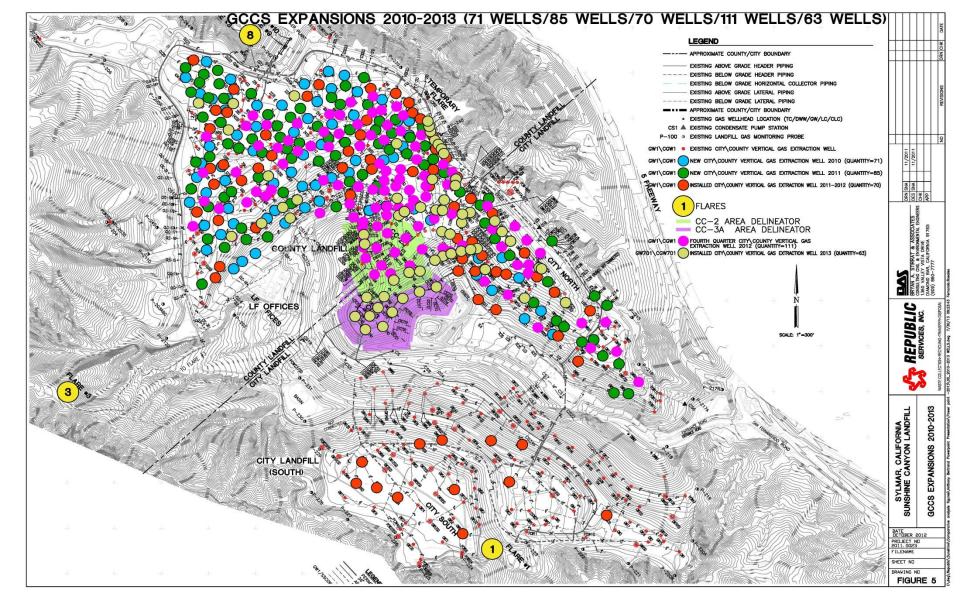
Landfill Gas-To-Energy Plant

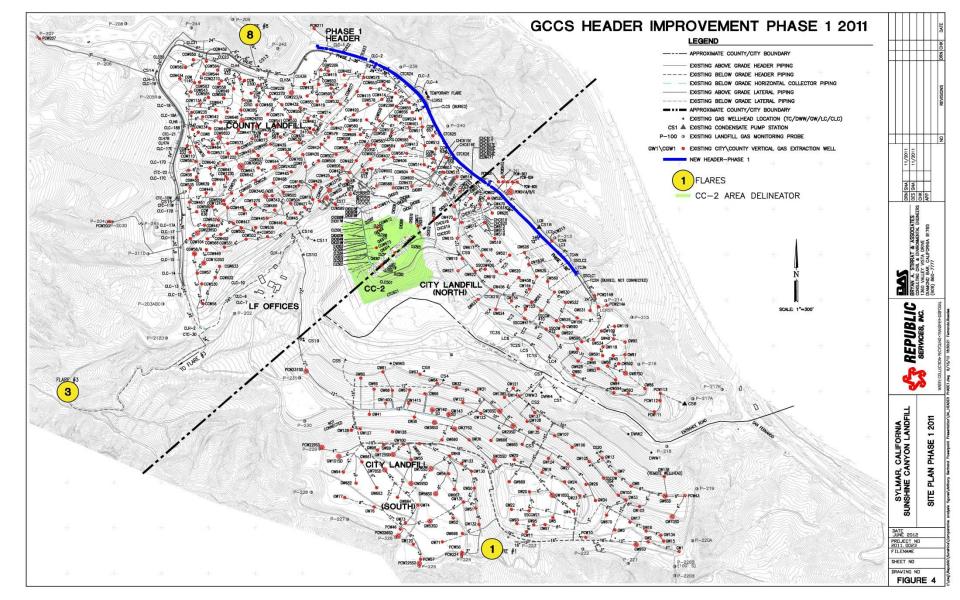
- ✓ 20 MW 15,000 homes
- ✓ Started construction in June 2013
- Operation anticipated in May 2014

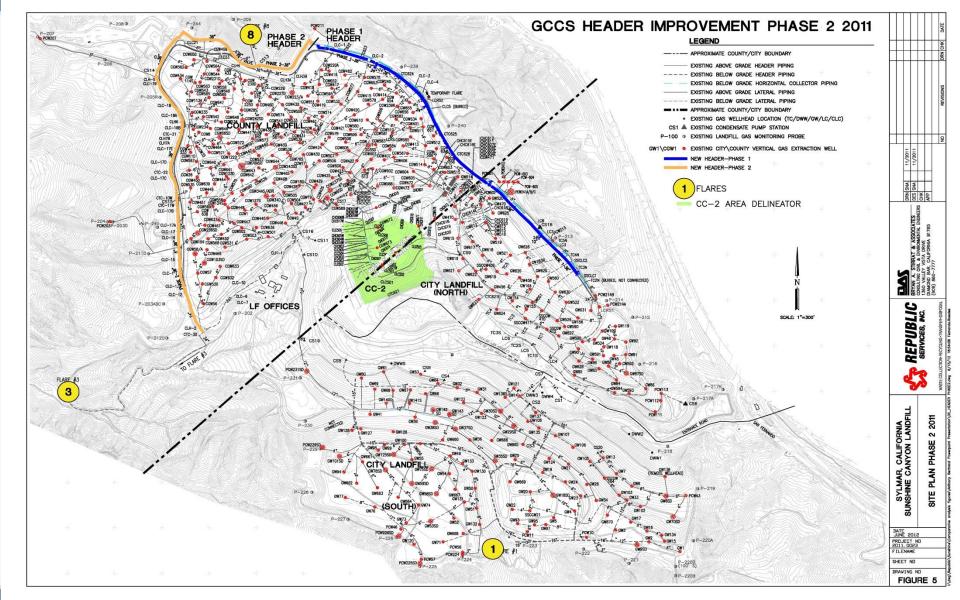


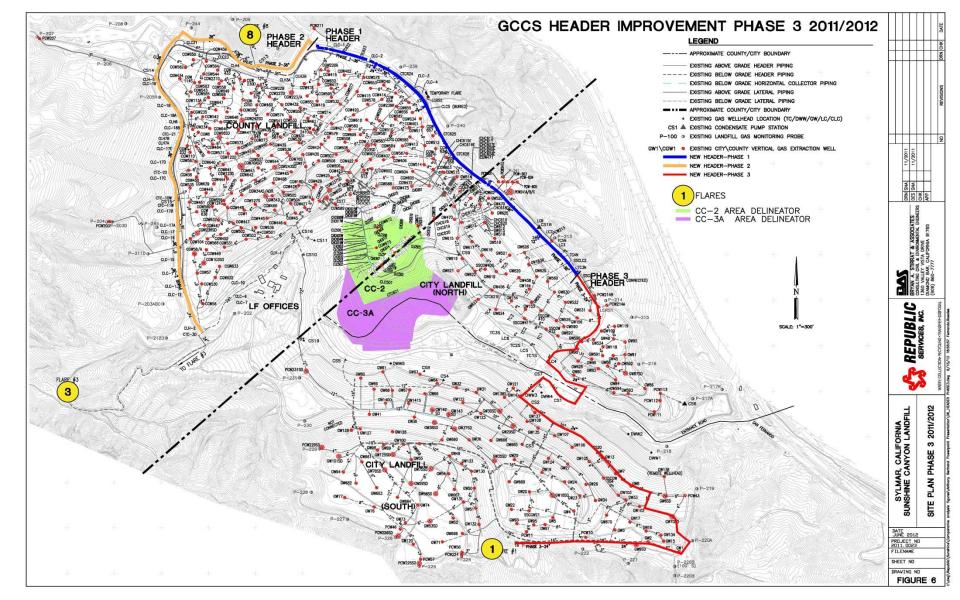


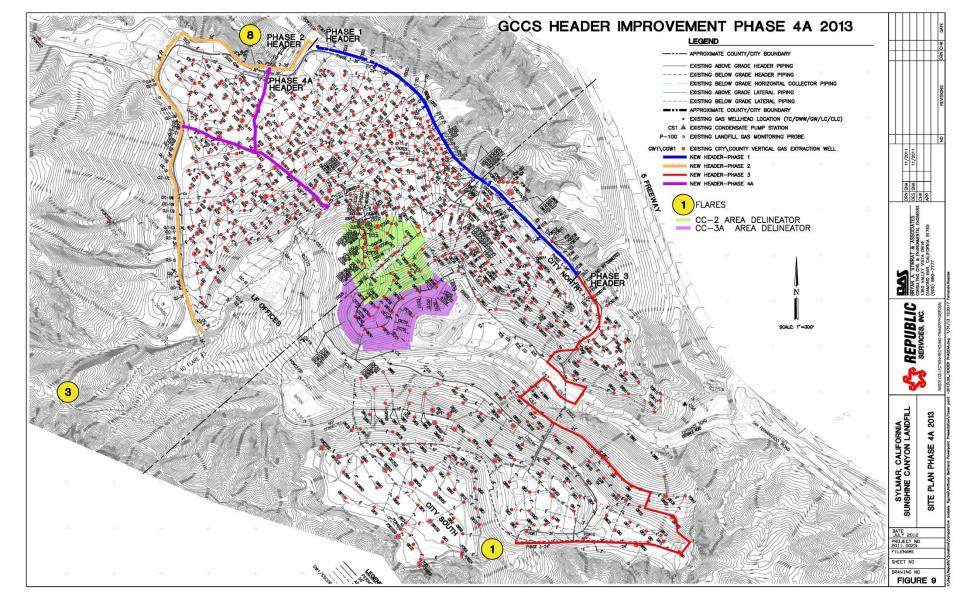


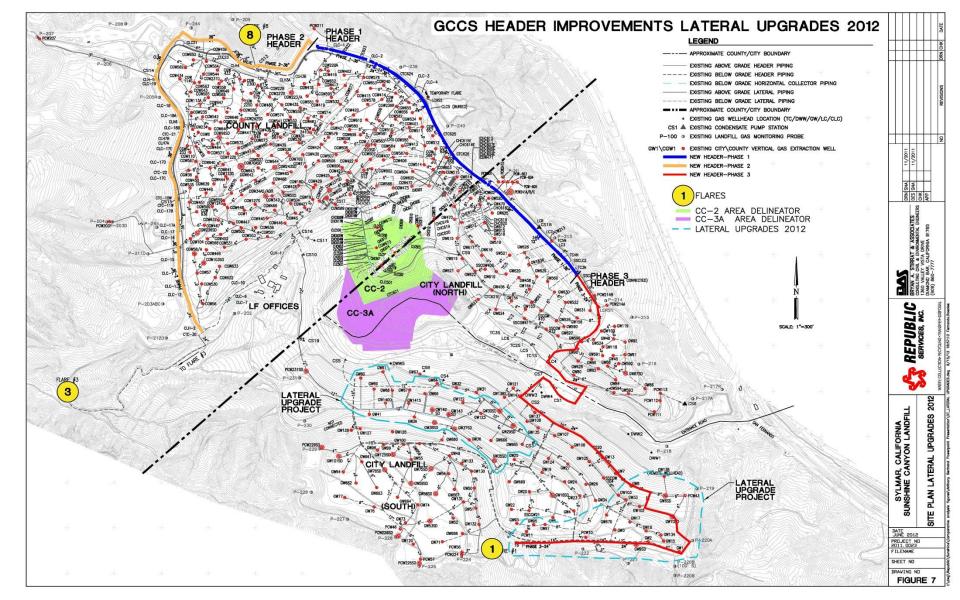


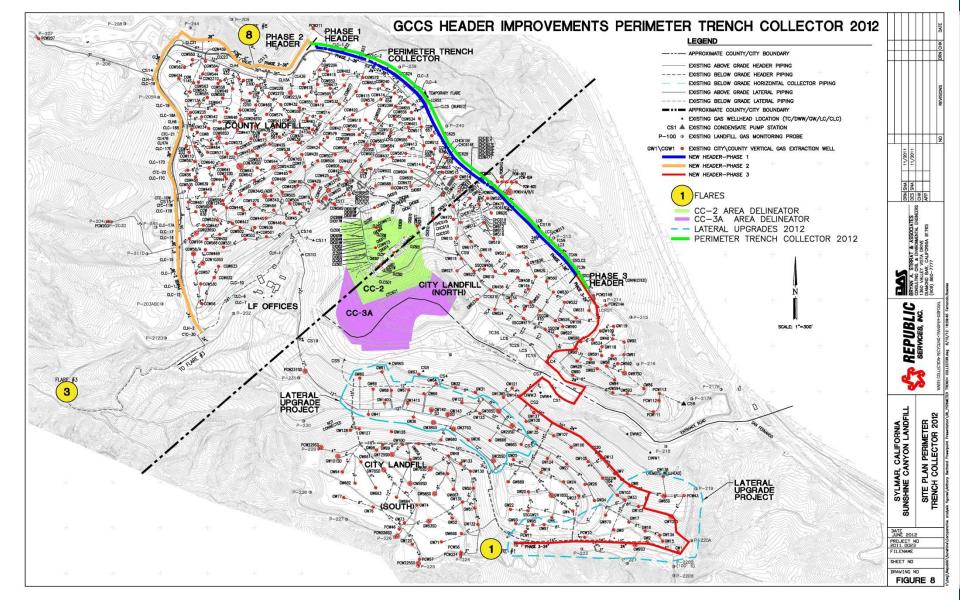


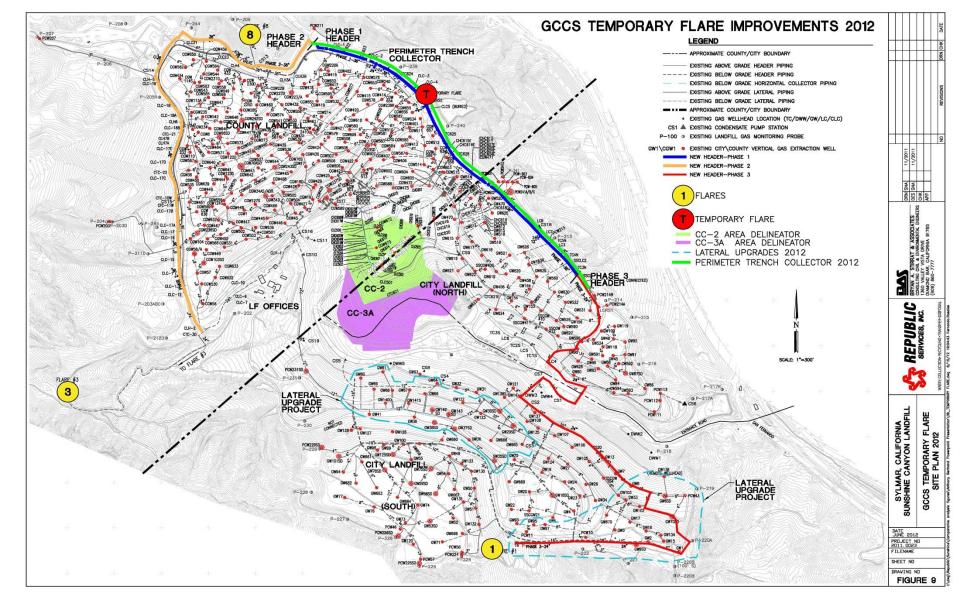


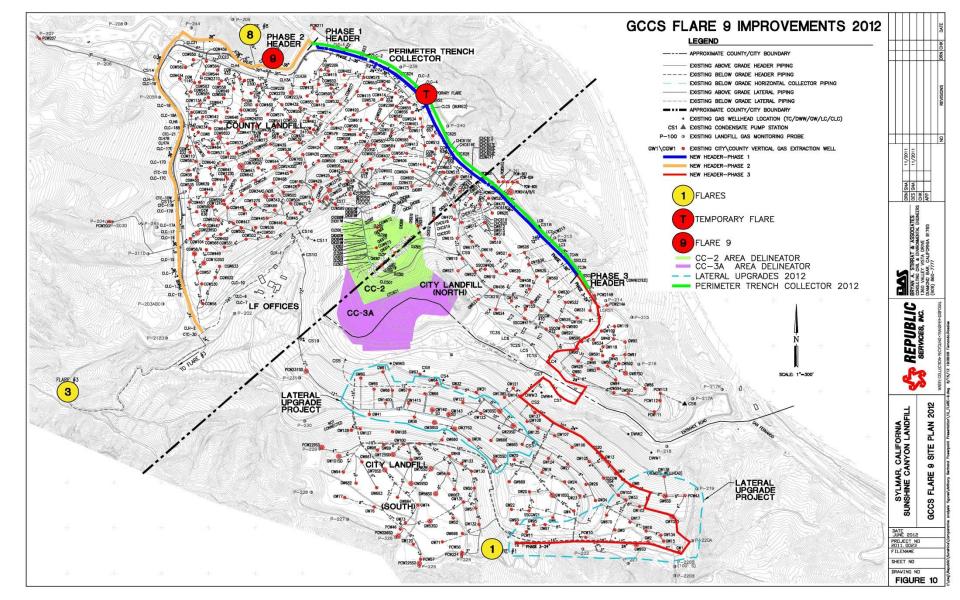


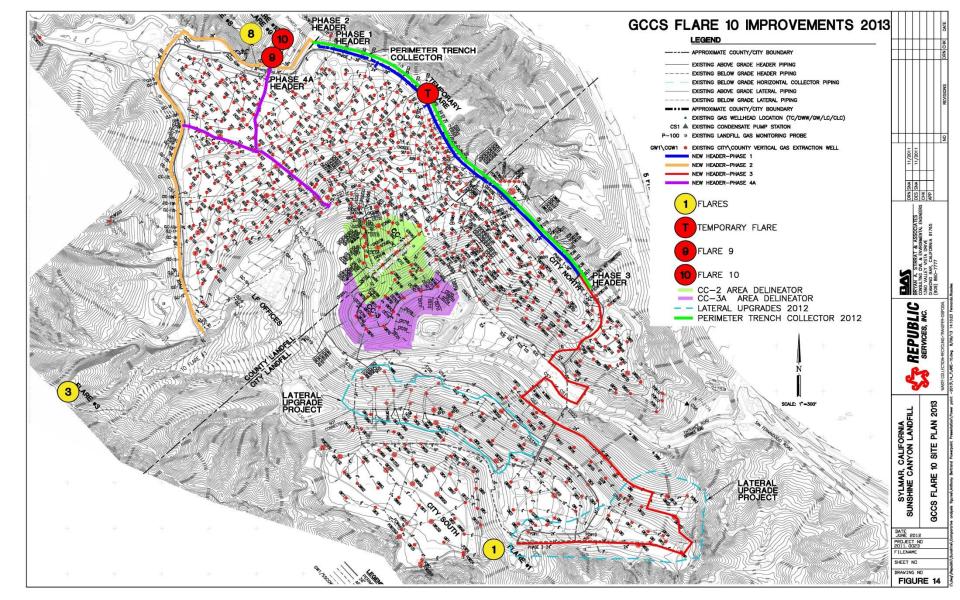








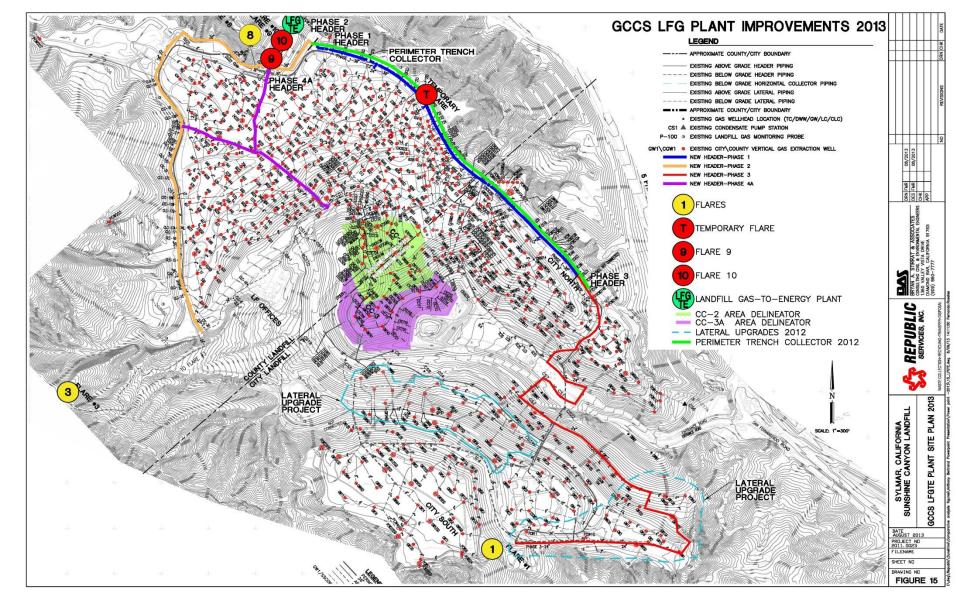


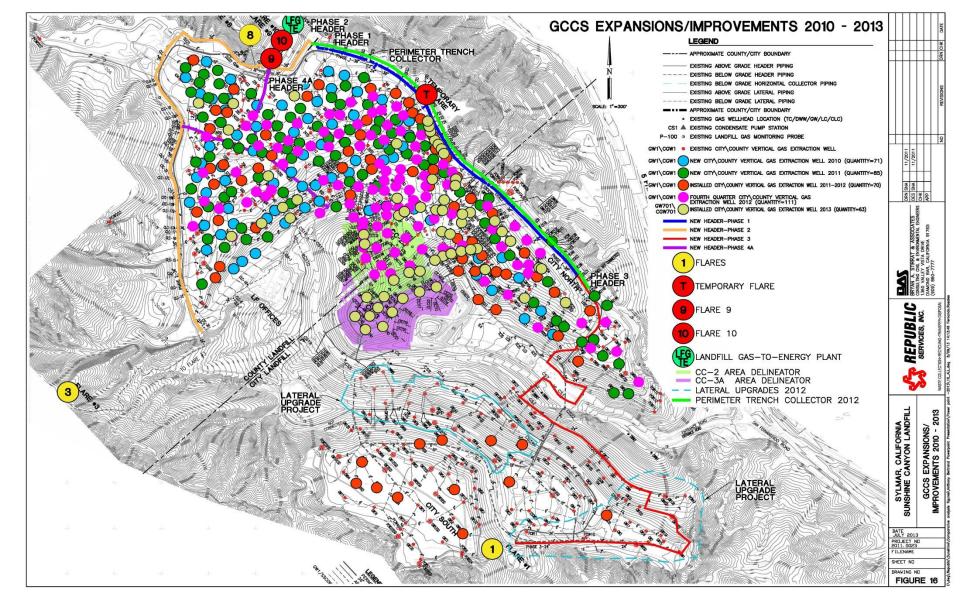






Flare 9 Flare 10





Results from Completed Improvements



- Significant improvements in gas collection efficiency
 - ✓ Flare Production
 - September 2011 8,200 SCFM
 - Today 15,000 SCFM
 - Increase of 83%
 - ✓ Surface Emissions
 - September 2011 254 points over 200 PPM
 - Today 24 points over 200 PPM
 - Decrease of 90%

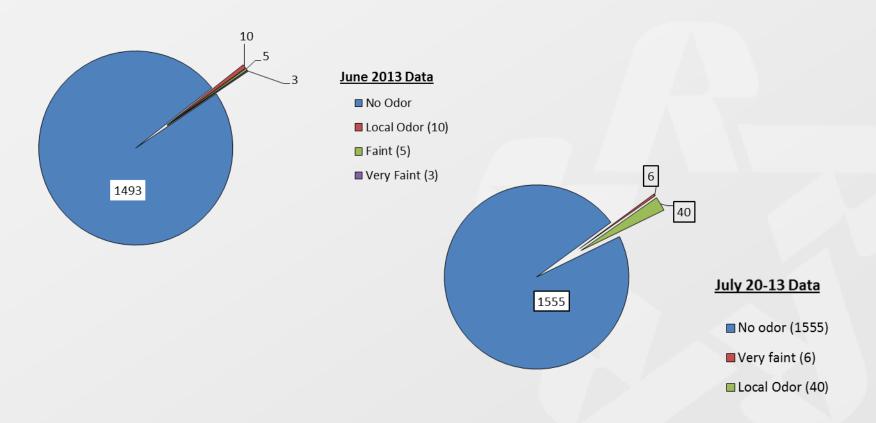
Results from Completed Improvements



- Significant reduction in neighborhood odors
 - ✓ June 2013 monitoring
 - 1,511 total observations
 - 1,503 no odors or local odors 99.5%
 - Classified as faint, very faint, and fleeting
 - ✓ July 2013 monitoring
 - 1,601 total observations
 - 1,595 no odors or local odors 99.6%
 - Classified as very faint, and fleeting

Results from Completed Improvements





Next Step - Keep Working



- Continue dewatering program for the wells
- Install new sewer line to discharge liquids offsite
- Need relief from soil cover each morning prior to waste placement to remove "liquid barrier"
- Drill more wells as landfilling progresses
 - > \$2M upgrade to City portion 89 new wells and piping
- Continue positive outreach in the Community



Working Face/Waste Stream

Need to stay focused on the refuse odors

- Construction Odors
- Working Face Odors
- Waste Stream Odors

Construction



- No drilling before 10am during adverse conditions
- Vacuum box
- Odor neutralizer
- Drill cuttings to working face within one hour
- No open boreholes at end of day
- Provide vacuum on horizontal well during installation

Working Face



- Continue Working Face odor measures in AO
 - √ Soil cover
 - ✓ Dust bosses
 - ✓ Orchard fans
 - Misting system along entrance road
- Evaluate odors from Alternative Daily covers

Waste Stream



- Odiferous Load Program
 - ✓ Third-party hauler source review
 - ✓ Inter-company load management
 - Time of delivery avoid < 9 am
 - Treat at Transfer Station
 - Redirect to other destinations
 - ✓ Screen at scale house
 - ✓ Expedite travel time to WF when necessary
 - ✓ Separate disposal area